



Performance Data Sheet

RGA5494BXC

General Information

Model	RGA5494BXC	Refrigerant	R-410A
Test Condition	ASHRAE	Performance Test Voltage	220V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	2870	2690					
	Watts	434	474					
	Amps	2.02	2.19					
	Lb/h	30.9	30.8					
-10	Btu/h	3240	3060	2860				
	Watts	447	491	525				
	Amps	2.13	2.31	2.47				
	Lb/h	35.9	35.8	35.6				
-5	Btu/h	3640	3460	3240	2990			
	Watts	458	505	542	576			
	Amps	2.21	2.40	2.58	2.75			
	Lb/h	41.1	40.9	40.6	40.0			
0	Btu/h	4080	3880	3650	3380	3070		
	Watts	467	516	557	594	632		
	Amps	2.27	2.47	2.66	2.84	3.04		
	Lb/h	46.4	46.2	45.8	45.1	44.0		
5	Btu/h	4560	4330	4080	3790	3450		
	Watts	473	525	570	610	651		
	Amps	2.30	2.53	2.73	2.92	3.13		
	Lb/h	52.2	51.9	51.3	50.5	49.3		
10	Btu/h	5090	4830	4540	4220	3850	3430	2940
	Watts	476	532	580	624	669	719	779
	Amps	2.32	2.56	2.78	2.99	3.20	3.44	3.72
	Lb/h	58.4	58.0	57.4	56.4	55.0	53.1	50.4
15	Btu/h	5680	5380	5050	4690	4280	3820	3290
	Watts	477	536	588	636	684	738	802
	Amps	2.32	2.58	2.81	3.04	3.27	3.52	3.81
	Lb/h	65.4	64.8	64.0	62.9	61.3	59.2	56.3
20	Btu/h	6330	5980	5610	5200	4740	4230	3660
	Watts	475	538	594	645	697	755	823
	Amps	2.31	2.58	2.83	3.07	3.32	3.58	3.89
	Lb/h	73.2	72.5	71.5	70.2	68.4	66.0	62.9

25	Btu/h	7050	6650	6220	5760	5250	4690	4060
	Watts	471	538	597	652	709	770	842
	Amps	2.28	2.57	2.84	3.10	3.36	3.64	3.95
	Lb/h	82.1	81.1	79.9	78.3	76.3	73.6	70.3
30	Btu/h	7860	7390	6900	6380	5800	5180	4490
	Watts	464	535	598	658	718	784	860
	Amps	2.23	2.55	2.84	3.11	3.39	3.69	4.02
	Lb/h	92.0	90.8	89.4	87.6	85.2	82.3	78.7
35	Btu/h	8750	8210	7650	7060	6420	5720	4970
	Watts	455	530	597	661	725	795	875
	Amps	2.18	2.52	2.83	3.12	3.42	3.73	4.08
	Lb/h	103	102	100	98.0	95.4	92.2	88.2
40	Btu/h	9730	9120	8490	7810	7100	6320	5490
	Watts	443	523	594	662	731	805	889
	Amps	2.12	2.48	2.81	3.13	3.44	3.77	4.13
	Lb/h	116	114	112	110	107	103	99.0
45	Btu/h	10800	10100	9400	8650	7850	6990	6070
	Watts	429	513	589	661	734	813	902
	Amps	2.05	2.43	2.79	3.12	3.46	3.81	4.19
	Lb/h	130	128	126	123	120	116	111
50	Btu/h	12000	11200	10400	9570	8680	7730	6720
	Watts	413	501	581	658	736	819	912
	Amps	1.97	2.38	2.76	3.12	3.48	3.85	4.24
	Lb/h	146	144	141	138	134	130	125
55	Btu/h	13300	12400	11500	10600	9590	8550	7440
	Watts	394	487	572	653	735	823	921
	Amps	1.89	2.33	2.73	3.11	3.49	3.88	4.30
	Lb/h	164	162	158	155	151	146	141

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.818999E+03	-7.817464E+02	-1.934021E+00	5.455499E+01
C2	1.247849E+02	-3.636751E+00	-2.392584E-02	1.144883E+00
C3	-3.359683E+01	3.060250E+01	9.901235E-02	-3.069698E-01
C4	2.046987E+00	-7.015917E-02	-5.962506E-04	1.221228E-02
C5	-4.205270E-01	6.099486E-02	5.252039E-04	4.935930E-04
C6	2.683589E-01	-2.486877E-01	-7.844995E-04	4.046542E-03
C7	1.005854E-02	1.913717E-05	2.156169E-06	2.014609E-04
C8	-1.506012E-02	2.419298E-04	2.259527E-06	-5.501423E-05
C9	5.077538E-05	2.736449E-05	-1.352160E-06	-1.242378E-05
C10	-1.496524E-03	7.654366E-04	2.538741E-06	-1.851713E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature